## NEW NOIE'YII MEIBICAN NPIDEISN INI MITBN.



OONOIDIDE.
But one speries of this family hat heen described fiom our comutry, Orehestinn saltitams liks., a soft-botied form. I now take pleasume in adding another species of the hard-borlied section.

Gamasonmorpha flovidalla nov. sp.-Length is, man. Reddish yellow, legs paler yellowish ; cephalothorax one and a third as long as broad. narmow in front, surface punctulate exept in metian region, which is bombed by a row of bristles, quite high in second third, convexly sloping to low clypeus, abrupt hehind ; a. m. e. toneling the slighty smallerp. s. e.; p. m. e. larget, touching. but well separated from s. e.: posterior row distinetly recurved; mandibles vertical, with a swelling on the front near hase; maxillae inclincil over the short lip; sternum a little longer than broad, broadly truncate between hind coxar, punctulate, a bristle arising from cach puncture: Iogs monderate, femona thickened at hase, mospines. Ahomen elliptical, ouce and a hald as long as broad, wholly covered above by a homy shield, and a large one on the venter from base to near spinmerets, a cirele at hase of spinnerets, shields ponctulate, each pmeture giving rise to a hair, ventral shield divided al lung-slits, and in the anterior fortion are two ohlong red marks.

Two specimens from Punta Gorda, Fla. (Mrs. Slosion ).

> PHOLCID.E.

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Group of Pholece. Eirht eves; posterior row morlerately re(mured, of abont equal size, the m. e. their diameter apart, almost touching the s. e. ; anterior row procured, the m. e. but little smaller than the s. e., nearly contiguous, and but litale farther from either the as. s. e. or the p. m. e., but a trifle nearer to the former ; epphalothorax broad, impresed, the pars cephaliea slightly elevated and romaled, eyes not on an elevation.

Closely related to Ihysocyclus, but in that genus the posterior row of eyes is straight, and the a. m. e. several times nearer to the a. s. e. than to the p. m. e.
 Cephatothorax pale yelowish, darker on head, black spots around eyes; stermum and legs pale dirty yollowish. Ablomen pale beneath, dark gray above : everywhere with seattered gramules, but must numerons on the abolomen, eath griving
rise to a large, stiff, corved bristle ; cephabothorax as long as broad, rom ded. low, head elevated, elyens high and coneave, eyes large and close together; mandibles moderately large, in $\delta$ with a down-enred spine from inner edge of base, the two, as seen from above, elose together and mot diverging. Legs long and slender, motatarsis $i$ abont three times as long as tarsus $i$; sternmm as broad as long, sides rounded, broadly rounded behind, in the $\delta$ there is a conisal hump on each anterior corner. Abdomen higher than long, somewhat compressed; region of epigynum swollen, a large brown plate, concave behind and each side extending backwarl to the furrow. The $\delta$ palpus with the femur swollen at tip; the patella short; the tibia gibhose above; base of tarsus short, with a slemder projection on the onter side, bulb ronded, as large as tibia, higher than long, on inner side near tip is a darker lumate hody, thbe stont, shorter than bulb, oblique at tip, its lower edge projecting.

F't. Collins, Coloradu, in a house (Mrs. Ninette Baker).

## (ECOBIII)E.

 grayish, blarkish on edges. Abdomen grayish, blackish on sides, mo silvery spots, renter pale. Legs grayish, the femora show a blackish soot in middle of underside: stemum and eoxe pale rellowish; structure similar to T. perietalis, but the legs are a little shorter and stouter ; the epigyomm consists of two small comivent holes on posterior margin and a bifid median furrow in front.

Lake Worth, Florida (Mrs. A. T. Slowson). Readily separated from T', puretutix hy its nearly miform gray color and shape of ері"уииm.

## DRASSIDE.

 basal joint of palpus back, rest white: femoma of anterior legs black, rest of these pairs white (bosterior pairs missing ) stermum pale yellowish. Abdomen black above, on hasal half fonr white spots forming a square, and on median line two elongate white soots; on posterior half there is a row cach side of three small white spots ; on the lower sides there is an obligue white spot near hase. and another near middle, venter pale; cephalothorax short and brod, anterior row of eyes nearly straight. a. m. e. fully their diameter apart, closer to the equal a. s. e. ; posterior row barely procurved, p. m. e. more than diameter apart, obligue, hardly their diameter from the eftath p. s. e.; stermm very hroad. sides rommed, pointed between the hind cosie. Legs moderately short, with some seattered hairs, wo spimes, femmr i about as long at width of cephabothoma. Ahdomen twice as long as broad, wot eonstricted, broadest wear midde, tapering and pointed behind, covered above with blackish, somewhat iridescent sales; the cpigynum consists of two mpenings about twice as long as broad, constricted in the mikdle. leaving a septum between them about as broad as their short diammer.

Gue specimen, Punta Gorda, Florida (Mrs. A. T. Shasum). Our shatlest = peroces.
 1 mm . broad: a f is: 3 mm . long. Cephatothorax, stermm and legs light hrown-
ish vellow, without markings, except the metatars:, which are infuscatcol. Ahdomen hack abose, paler below, clothed with greenish irdescent saldes, a narmw white band before the midde; cephathorax narmw ; anterion row of eyesshort. a. m. e, abont their diameter apart, nearer to the a. s. c.; pusterior row longer, the p. m. e. fully their diameter abirt, seareels so far from the jo. s. e. ; sternme a little bonger than broad, pointed behind, sides rommed. Ahdomen one and twothirds longer than hroad, widest at midde, a hard spot at hase, not constricted; the $\delta$ palpus is similar to $1 /$. constricta, but the tibia is shorter, the projection on the onterside very much larger and stonter, being neanly as long as the width of the joint, the palpal organ has the tube lomger than in M. comstricte, the inmer tube shows as in that species, and there is a hook in the same position ; on the tarsus near the tip of the tabe are three very stout black spines: the epigymum ennsists of a somewhat , gadrangular eavity with rounded comers, hroader behind than long, and divided by a narrow septum: in the botom the anterior darker portion is obliguels sepanated from the smaller posterior purtion.

F't. Collins, Colorado (Mrs. Ninette Baker ' Oue male hats the cephalothorax and stermum wholly infuseated.
 wide. Cephalothorax dark brown, clothed with white hairs: femora i and ii bhek, rest of legs pale yellowish; stermum blackish. Abromen back, clothed with iritescent seales. a band at hase and a marow one betore the midde, white: a. m. e. havely their diameter apmot, close to a. s. e. ; p. m. e. abost their diameter abart, nearer to p. s. e. Legs moderately shorl, femora stont : stermum phanly longer than broad, tapering and prointed behind ; abdomen over one and a half times longer thath broad, cylindrical, not constricted. and withou a hatrd spot at base; the $\delta$ palpus has the tibia but little longer than hroad, and with a short stout projection on the onter tip; tarsus slender, bulb short, very convex, conically swollen in lower part, a large pominent hook above, the tube short and on the inne: side, not at tip of bull.

## Ft. Collins, Colorado (Mrs. Ninette Baker).

Micariat pallialititisis nov. spo-length 1.6 mm ; ceph. 1.9 mm . long; tibia, plus patella is, 2.05 mm. Cephalothorax yellow, blackish noar hase. mandibles and sternom yellow ; first pair of legs wanting, other femora hrownish or blackish, rest of leg ii pale, patellae of iii and iv pale, lineated with hlack, tibia and metatarsus iif brownish, thia and metatarsus iv black, tarsi ioi and iv pale. Abdonsen back, covered with seales having a greenish reflection; a band of white sales just before the middle, marowly intermpted above, broady below. Head of eephatothax harrower than in M. lomipes; stromm long, pointed behind: abdomen a little constriated just before middle; the legs are very slender, there are scerat spines under sibia ii ; p. m. e. harely once their dianeter from the p. s. e.; more than wiee that distance from eith other.

One specimen (q), Southern California.
Our species of Michria may be separated by the following table:

1. Abdomen mot comstricted. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .

Abdome't (constricted. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
2. Abdomen with several small white spots above. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .

No small spots ahove.
3. Anterior femora darker than rest of legs, especially in the male..............4. Anterior fomomater than anterior metatarsi and tarsi...coloradensis.
4. Cephaluthorax brown, o palpal bulb comically swollen at hase...perfecta. Cephalothorax paler, of palpal bulb not swollen at base...........rnontanat.
5. Body pale, covered with golden scales, legs almost wholly white.....angilis. loody dark, with dark seales, legs dark.
. 6.
6. P. M. E. less than diameter apart. no lines on the logs. ...........onstrictia.
P. M. E. fully their diameter apart, legs lined...................................
7. P. M. E. not once their diameter from p. s. e................palliditarsis. P. MI. E. mueln more than their dianeter from p. s. e........................... .

- Cephalothorax pale yellow-hrown.............................................gipes. Cephalothoras dark brown........................................frinicoides.
Eiliáa bicolor nov. sp.--Length 3.5 mm . Cephalothorax and legs reddish. the former blackish on the margin : legs more yellowish; abdomen black, sternum pale sellowish: cephalothoras nearly once and a half longer than brod, low, clothed with seateren black hairs, some longer ones on elypeus; anterior row of eses ahout straight ; a. m. e. less than their diameter apart, still eloser to the very much larges a. s. e.; posterior row slighty longer than anterior one, distinetly recurved, the p. m. e. fully their diameter apart, closer to the slightly larger p.s.e.; m. e. equal, fomming a quadrangle as high as hroad behind; mandibles yaite large and stout, slightly porrect, a broad tooth below. Legs moderate. patellat plus tihia i shorter than cephatothorax. spines above on femora and some below on tibixe and metatarsi, tarsi about as long as metatars; sternum owal, pointed helind between hind coxae. Abdomen once and a balf longer than broad. broadest behind the middle, depressed, slightly trumeate at hase, broadly rounded behind ; the of palpus has a prominent curved spine at outer tip of thia, the palpal organ is divided ohliguely into two lohes, the bower one bearing a short, stout, curved hook, from the tip arises the slemder tuhe, it is twisted at base, then makes one nearly complete circle as large as the palpal organ.
( )ne male, Punta Gorda, Fla. (Mrs. A. T. Slosion).
 wide; tihia, plas patella i, 1.9 mm.; tibia, plus patella iv, 9.6 mm. Cephahothoras dark red-hrown, nearly black, lineated with hack; mandilles, palpi and legs similar, tarsi of legs paler; sternam marly back. Abwomen hack, spimerets thark red-hrown ; abdomen with yellowish hairabowe; a. m. e. separated by more than their diametor, and much closer to the largera.s. e. ; misterior mo recured, no longer than the anterior row, from whieh it is widely separated; 1. m. e. owal, about their diameter aprif, not quite so far from the larger p. s. e.; mandibles with a phate benmath the fang; sternum nearly as broad as long. Legs quite bristly, tibia i with five spines bemeath, tibia iv with one spine above near the base. Abdomen depressed, once and a half longer than hroad, romended at base; the epigsnum is hroaler than fong, semicireular in outline, from the posterior margin there extonds forward on cach side a narrow, curved. pointed piece. reaching wearly to front margin, leaving on each outer side a stender chamel, and in the midde bet ween the two picees a large cavity, which is almost filled by a pear-shapeed borly.

One female, Olympia, Washington (Trevor Kincaid). This sperese, at first sight, rewombles Prosthesimen urat Htz., but is readily separated by the structumal charateres.
 2.3 mm . wide. Cephalothorax yellow-hrown, with black on the ends of the radial furrows and just behind the pars cephalica; mandibles red-brown; legs. palpi and sternum yellow-brown. Jegs darker on the tibie and metatarsi. Abhomen black, spinnerets brown ; cephalothorax longer than tibia and patella i ; both tibiee $\mathbf{j}$ and ii hase two spines bencath at tip, no whers; posterion rows of eyes strongly reenrved, p. m. e. about their diameter apart, and nearly three times that distance from the larger p. s.e. stemum planly longer than broat, thomcate in front, broadest at coxie ii, pointed behind. Abdomen depressed, truncate at base. with a fringe of stiff hars, once and a third longer than broad ; the eavity of the epigynum is divided into two parts; the anterior part is once and a fourth longer than broad, truncate in front and connected belind to the very much narrower posterior part, which is abont twice as long as wide; the anterior part contans a large oval body, pointed in front, and, filling the cavity behind, it extembs into and fills the posterior cavity; in its middle there is a somewhat triangular mark; behind the epigynum there is a parted line as in the other species.

One specimen, Ithaca, N. Y.; its smahl size and shape of epingnum readily distinguishes this from the other species of the genus.
 mom. wide. Cephabothorax yellow-brown with back marks on ratial furrows, and a black $V$ at end of pars cephaliea; mandibles red-brown; femora, espeeially the anterior pairs, quite rellow: posterior femora more hackish, rest of legs tinged with real-hrown; palpi yellowish; sternum and ablomen black, spinmerets pale: cephalothorax longer than tibia. phas patella i, quite narow in front: p. m. e. less than their diameter apart, hardy twice their diameter from the larger l. s. e.; tibise i and i withont spines ; stemum nearly oval, hut truncale at base. Ahbomen depressed, trmeate at hase, one and one-third times longer than broad: the epigyomm is nearest to G. brumalis, but the midnle finger is not pointed at tip. bat blunt; it is shorter and divided by a transverse ine ; there is no basal striate body as in that species, bat a rather brat plate contaming a small rounded cavity in jts posterior margin; the ustal parted line behind the epigyamm the of papus has a spur on the onter stule of tibia, the palpal organ has harel plates at base as in fi. brumalis, lunt the tube is longer, though not so lomg as in (í com sperate, and the hook is stouter even than in the latter speries.

## A female, Hanover, N. H. (C. M. Weed) ; a male, Framemia,

 N. H. (Mrs. A. T. Slowion . Its small size, black stermm and peculiar epingmm, distinguish it from the other species. lomg. 1. mm, broal. patella, plus tibia i, $\because$ mm. Jomg. Cephatothorax fellowish; legs paler gellowish, exept tihiar, metatami amb tarsi of antergor pars, which are red-brown; mandibles red-hewn; sternum yellowish. Abolomen pale whitish gray : everywhere clothed with fine blackish hair and stonter bristles; cophalothona lomir and low: a. m. e. lamer than other eyes, less than ome-half the diameter apart, and still closer to the a. s. e.; posterior row sightly longer thath
 cter apart, searely so far from the $p$. s.e. quallangle of m. e. fully an long as
broad in front; mandibles quite large, distinctly porrect, fangs long; sternum slender, narrowed in front and behind. Legs short and stont, metatarsi and tarsi i and ij with scopulas, two spines below on tibia i and same on tibia i, many below and on sides of the posterior pairs ; abdomen depressed, once and a half longer than broad, truncate at hase; the epigynum consists of a somewhat triangular cavity, nearly twice as broad as long, divided by a marrow septum.

One specimen, Punta Gorda, Fla. Mr's. A. T. Slosson).
Prosilhesimat miger nov. sp.-Lengih 6-5 mm. ; (eph. 2.2 mm. long. 1. mm . wide: patella, plus tibia iv, 3 mm . long. Cephalothorax, mandibles and stermon dark red-brown. Legs blackish, yellow on coxe, tarsi and base of femora. Abdomen dark gray ; posterior row of eses straight, barely longer than anterior row ; p. m. e. large, oval, not half their diameter apart, about their diameter from the smaller p. s. e.; sternum longer that brad, truncate in front, widest at second coxe. sides rounded, pointed behind : the legs are very hairy; there are no spines above on tibise iii or iv, and none below on tibia i. Abdomen quite long and somewhat celindrical, bat slighty depressed ; the epigynum consists of a cavity about as broad as long. widest in the middle and marrowed each end ; in front is a hroad plate, concave behind, from this extends hack ward a large clavate septum whose posterior tip rests in an extension of the main cavity.

Three specimens, Olympia, Washington (Trevor Kincaid). Differs from $P$. ution in the paler color, the oval p. m. e., the longer hind legs, and in different epigynum.

Prosthesimat validat nov. spr-Length $\% 9 \mathrm{~mm}$. : ceph. 3.8 mm . long. 2.5 mm . wide; patella, phus tibia iv, 4.1 mm . Cephatothoras, mandibles, legs and palpi red-hrown: leps darker on metatarsi and tarsi; sternum dark redbrown; abdomen above and below dark gray, nearly black in front and blackish on the sides; spimerets yellowish. Body and legs, with black hairs. Legs quite slender, with scopulas to tarsi and metatarsi (except iv), three spines below on tibia j , and one above on tibia is ; posterior row of eyes straght, barely broader than anterior row ; p. m. e. round, seprated by their diameter, nearer te each other than to p. s. e.; a. m. c. largest eyes. sepurated by nearly their diameter. half that distance from the a. s. e. ; the epigymm consists of it cavity longer than broad, divided by a septum, the anterior half of the cavity being covered by a thin phate. What 1 take to be the male of this species is smaller and paler ; 7 . mm. long; the cephatothorax and legs yellowish, the abdomen nearly white, with a triangular corneons plate at base above; there are two rows of three spines each under tibia i. and one spine ahove on thite iii and iv ; the tibiat of the $\}$ patpus is much broder than long, on the outer side is a curved projection ending in two sharp points: the tarsus is more than twice as long as broul ; there is a dark proeess alloug the onter side. and a dark line on half the inner side; the tube is very small and short, terminating the oblong bulb; at the tip there is a swollen white portion.

Los Angeles, ('ala. (I)r. A. Davidson).
Dransits vastus nov, sp. Length of 11 mm.: ceph. 1.6 mm . long, 3 mm . wide; patella, phus tibia iv, 5.2 mm . Cephatothoma am legs yellowish, with a tinge of brown, metatarsi and tarsi blackish, mandibles reddish, sternum yellowbrown ; abdomen grayish brown, darker near tip, with several faint light chev-
rons on the posterior part of dorsmo ; everywhe densely hairy. Legs 4 1-2 - 3 , metatarsi (except iv) and tarsi with dense seomalas; no spines above on any of the tibir, one spine below on tibia $i$; posterior row of eyes procurved, longer than the anterior; p. w. e. oval, more than their diameter apart, slightly nearer to caeh other than to p.s. e.; anterior row stmaght : a. m. e. the larger and nearer to a. s. e. than to each other ; sternmm broad, the epiggmum consists of a somewhat circular cavity, from the anterior edge of which there projects a large plate emarginate on its posterior border.
(Oympia, Wash. (Trevor Kincaid). •
 mm. wide; patela, plas tibia iv, 2.5 mm. Cephatothoma and legs pale yellowbrown, blackish aromad eyes; mandibles dark red-brown; stermm yellow-brown, darker on edges; abdomen above and below gray ; posterior row of eyes procurved; p. m. e. large, oval, close together, very far from s.e.; a. m. e. separated bs nearly their diameter, closer to the s. e. than to each other. Legs short, quite hary, but with few spines, none on any of the tibite, scopulas on tarsi very thin : stermam moderately broad ; epigymmon consists of a cavity broader than long, contaning a large plate, the posterior end of which has a small projection to the posterior margin of the cavity.

## Ames, Iowa (Prof. C. P. (illette).

## CLUBIONIDE.

 patedla, plus thia iv, 3.2 mm. Cephatothorax pale yellowish, darker around eyeregion, legs similar, Hetatarsi and tarsi of anterior pairs darker; mandibles redbrown : sternom pale, abdomen whitish; a. m. e. less than diameter apart, a little closer to the equal a. s.e.; p. m. e. once and a half their diameter apart, barely closer to the egnal p. s. e.; mandibles large, scancely porrect; stermmon oval ; legs mowerate, 1-4-2-3; tibia, phas patella i, a little lon ger than those joints of leg iv, metatarsus iv no longer than $i$, all with many spines. Abromen oval, ventral furrow mach nearer to the ephgymm than to suinnerets; the epigymm has a septum twiee as long as long as broad, terminating behind in two black spots, on eath anterior side an anteriorly pointed abity.

One female, Lake W'orth, Florida (Mrs. A. T. Slosson).
 tritle longer, the tarans of of palpus much longer, and the piece, which in fo. calcuruta, is broad and incorved at tip, is much more slender and only its fine tip incurved : the prominences on the enxa are similat, hat the bifid process of the third coxa of culcerate is here smaller, slender and simple, not bitid; the eolor is paler than in colcumta, and the spots and dots more scattered.

Two males ; one Marhor Hill near Roslyn, N. L'., May ; the other from Carpenter's Woods near sea Cliff, N. V., Jume.
 mm. wide: patella, plus tibia iv. e. 3 mm . Cophalothorax brownish yellow. with an irregular brownish stripe each side connecting throngh the eyeregion, the enclosed area is usually limeate with brown. Abdomen covered with brownish
lines and spots, more or less reddish in the interspaces; mandibles almost black; sternmon yellow-brown: femora and patellat pale brownish, with some black lines; tibiee, metatarsi and hases of tarsi dark brown, tips of tarsi pale; soung specimens are often suffused with red ; cephalothoras broad and low; a. m. e. fully their diameter apart. mueh closer to al. s. e.; p. m. e. once and a half theis diamcter apart, searecly so far from the p. s. e.; mandibles stout, wertical; stermm oval; ablomen once and two-thirds longer than broad. densely hairs, tracheal upenings a little behim the middle of venter; the epigynmen consists of an area longer than hroad, brodest just behind the midde, anterior sides concave, posterior sides convex; it is indented from behind to near the middle, where there is a small cirenlar cavity.

## Olympia, Wish. (Trevor Kincairl).

Gayenua matoulata nov. sp,-Length 4.4 mm . Cephalothorax yellowish, with a black dentated stripe each side, and a line behind cach $p$. m. e. Abdomen whitish, with a large back spot cach side at base, two converging rows of four vers distinet and quite large spots, a large apical spot, and some small. scattered sjots black; the sides mostly black; venter with a few black spots: two black lines on the madibles. Legs yellowish, with some bands and black spots, stermm pale; similpr to .l. celer, but the of palpus has the swelling on the tibia larger, and the projection of the tibia has the outer part much smaller, white the imer part is shaped differently, being loager, contracted in the middle and bilobed at tip; the carsus is very similar, the central strip is more slender aud recurved at tip, and the tuhe is longer.

One 今, Washington, D. ('., November.
I at first thought this was A. celer Hentz, hut Hentz says that the spots on the abdomen are indistinct, which would agree with Keyserling's incerta rather than this species. Moreover, this species is probibly quite rare, while A. incerte is very common.

Clubiona murata nov, sp.-Length 4 - 6 mm. ; ceph, 2.2 mm . long. 1.7 mm . wide; patella, plus thbia iv, 2 mom. Cephatothorax pale yellowish, growing darker on the Lead, no marginal line; mandible dark red-brown; lip and maxilke redbrown; sternum yellowish; legs pale; ablomen reddish or brownish, showing a faint hasal spear-mark: venter whitish, epigynum back; cephalothorax elothed with white and black hairs and black bristles. Head moterately broad; all eyes about equal ; a. m. e. about their diameter apart, barely so fax from a. s. e. ; p. m. e. over thre times their diameter apart, over twice tneir diancter from p.s.e.; mandibles large amf frominent; sternmm oval, truncate in front. begs modercrately stomt, only one spine bencath on tibia iii: the epigynum is an area broader behind thath in front, the posterior margin simate, two barge eirendar cavities abont their dianctor ajpart, the portion between them extends behind as a trumeated lobe: the male palpus has a large, stout projection on the outer tip of thia, trumeate at the eud: the tarsus is oblong. about twice as long as broat, tmoneate at tig, the tube is bent at a right angle and then enrves back on the onter side, there is a hroad middle plate, trancate at tip, with a small black cone at each corner.

Several specimens, Chicago, Ill., October; also Ft. Collins, Colo., May Mrs. Baker).

Clubionat patificat nov: sp.-Lengthe mm. ; ceph. 3 mm. hong; ©. 1 mm. wide; patella phas tibia iv, 3 mm. Cephalohhorax brownish yollow; darkest near eyc-margin; mandibles reddish brown; stermm, legs and papi yellowish; Jast joints of palpi and tips of tarsi blackish; aldemen gray or reddish, with il median basal frown stripe reaching amost to the midde of dorsim; the a. m. e. alont their diameter apart, and abont the same distance from the larger a. s.e.; p. m. e. two and one-half times their diameter apart, abont twice their diameter from the smaller p. s.e. ; the a. s. e. a little larger than p. m. e. ; mandibles large and slightly porrect ; sternom narrow, truncate at hase ; fourth pair of legs much the longest, all with seattered black spines, two or three beneath on tibia iii ; there is a pateh of backish hairs on the underside of the tips of metatarsi iii and iv; the epigymm has a large middle lobe, coneave behind, each side there is a romd cavity separated by a clavate septum.

## Several specimens, Olympia, Wish. (Trevor Kincaid).

Phinoolithus atlinis nov. sp.-Length of 2.2 mm. Cephatothorax yel-low-brown, streaked with black; legs yellowish, blackish on bases of anterior femora; sternmm pale, with blackish edges; abdomen black, with an indistinct pale curved spot each side before the middle, a still less distinct pair at base: structure very similar to $I$ ? pugnutus, hut the eyes of posterior row are farther separated, the p. m. c. being about two-thirds their dimmeter apart (less than half in $P^{\prime}$. pmpatus) ; sternum very broad and triangular; the palpi are similar to $P$. pugnutus, but harger; the outer process of the tihia is slightly outenerved near its tip; the projection to the femur is near the base.

One male, Ft. Collins, Colorado (Mr. Baker). It can hardly he a western variety of $I$. pugnutus, as I have typical specimens of the latter from Wishington.

Apostenus cinctipes nov. sp.-Length 4. mm. Cephalothorar yellowish, eyes surromuded by back; a reddish stripe cach side, starting guite narrow, but becoming much broader near dorsal groove; a batek marginal line; mandibles, legs and stermm pale sellowish; red bands at middle and tip of femur, on patella, and at hases and tips of tibia and metatarsus; abdomen pale, suffused with reddish above and some white spots, a distinct basal red spear-mark, faintly conneated to some apical red ebevrons; venter yollowish: cephalothorax somewhat similar to Alyrect, head quite distinet. Abdomen oval, broadest a little behind the middle: sternum quite broad, pointed behind: lip much broader than long; fourth legs longest, then first: all with stont spines, those under tibiar and metatarsi i and ii being very stont and long, and arising from slight progections; two rows of tive cach ander tibia, two rows of three each under metatarsus: upher row of eyes slighty recurved, efnally large, and very much larger than lower eves : the p. m. e. closer to s. e. than eath other ; the a. m. e. smaller than a. s. e.; dypus very low; the epigymm shows two anteriorly diverging reddish ridges, the narrow furrow between them has an opening lehind, each side is a yellowish elliptical pateh.

One speemen, Olympia, Wrash. (Trevor Kineaid). This genus is selated to Phrmolithus, but the eyes of the posterior row are much larger, and the row slightly recurved ; the a. m. e. are smaller than the a. s. e.

Corimnat pacifican nove sp.—Length 6.5 mm ; ; reph. 2.3 mm long, 1.4 mm . wide : patella plus tihia iv, 2.2 mm. Form of C. amuma. Cephalothorax and mandibles reddish, eyes sumonmled with black; stemum red-brown; femora reddish. rest of anterior legs rellowish, posterior legs suflused with brown ; abdomen dark red-brown, robbed, bat showing some phomose white seales near the base; a. m. e. separated hy about their diameter, abont as large as p. s. e.; stermom a little longer than broad; a homs shod at base of the abdomea in the female. the male abdomen wholls covered above be a horns shield: the epigsonm shows two wal openings, more than their dianeter apart, abont like C. pimata. Length of male 5.6 mm . the tibia of the palpus has two conical projections below, the basil one the larger; the tarsus is long, attenuated at tip: the pale organ much like $C$. crocuto. but the tube vers sinort.

Olympia, I' $^{\top}$ ash. (Trevor Kincaid).
 wide; patella phes tibia is, 2.1 mm . Form of C. birittatu. Ciphalothorax, mandihles and stemmm reddish, anterior legs rellowish, brownish on fomom, posterior femora pale at base and on underside, rest baek, patellar marked with back, tibiee pale at hase and tip, metatarsi wholly black, tarsi blackish. Abdomen dark bown, nearly black above, with a narow basal band and two other broader bands before the middle, a narow midde hand, and a subapical cirele white: a. m. e. separated by much more tham their diameter, slightly smaller than p. s. e.; sternom a little longer thath broak.

Olympia, Wash. (Trevor Kincaid). (One of not quite adult.

## THERIDII.E.

 lothorax redtish, eyos surrounded by batek rings; mandibles and stermmon red dish; legs fellow. Abdomon grayish, with two small silvery spots on eath side, in the $O$ there is a blate spot between them. Ifead raised, posteriom row of eyes procurved, s. e. touching, p. m. e. largest, les than their dianeter apmet a. m. e. their diameter apart ; mambles of the $\delta$ with a large tooth mear tip over the base of the fang. Jegs moderately long, first pair longest, hary, a hamp on posterior side of each patella: sternum boad, romded hehind: $\mathcal{F}$ not quite adult, the abdomen globose, region of epigynam swollen and with a transvorse
 projection from base, tube short, with a short projection ean side.

Washington, I). (.. Jamehurg, N. J. ; Shreveport, Lat.: Ranmymerle, Fla.
 legs and stommm pale vellowish, the later blackish m margins, eves on blate Stots: abdomongras, with a large black spot carh side at base and a smaller one on each posterior site some distance above the spimmerets, a dark median stripe on fonter: eyes laree, the m. e. hat little larger than the s. e. : p. m. e. their diameter apart, closer to the p. s. e. Lags quite stout, shorter than in M. bubifere, clothed with stifl bristles, no spines, metatarsi longer than tasi. a hamp om the posterion side of each patella; sternum as brodd as long, broadest between coxe i and i , sides mathate, rommad between himd coxid. Abdomen high, glo-
bose, but plain! longer than hroad, with still bristles ; the epigynmm is a hemispherieal area, in the middle of which are two red holes, athont their diameter apart.

One speeimen, l'unta Gorda, Fla. (Mrs. A. T. Slosson).
Cerationosis bicolor nov. sp.-Length 1 mm . ('ephatothorax wholly blackish abowe, p. m. e. and s.e. white; mandibles marked with black: maxillae and lip blackish: stemmm large, convex, with a few blackish patehes. Legs and palpi pare white. Abdomen glohose, white, yel'owish aromd base and spinucrets, a back eirele each side above the lung-plates.

Of this very distinct little species I have two females, neither quite adult ; from a deep swamp near Ithaca, N. I.

Ceratinopsis similis nov. sp,-Length $f 1.3$ mm., o 1.1 mm . Cephalothorax orange, each eye with a hack ring: sternmu red or yellow; femora orange, rest of legs gray. Abdomen of of reddish above with a few lines near tip, venter whitish: $\delta$ ablomen gray, the spinnerets blackish. It is smaller and paler than C. niqripulpis, but quite similar in structure ; the of papus has the projection of the tilia longer and larger than in that species; the midelle space of the epigynum is narrow at hase, and tapers more gradually than in C. nigripelpis.

One f, Shreveport, La. ; one 9 , Rmmormede, Fla.
In the genns Cometinopsis, C. interpres is harlly congeneric with the other forms, and my C. fromtutus is a Huso ; the other species may he separated as follows:

1. Cephatothorax wholly hatek
bicolor.
Cephalothomax mostly redilish
.
2. Stermum with many roughened, irregular dark marks; black spot on pars cephalisa mot truncate behind.
laticerps.
Sternum without ans such markings. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 3.
3. The blaek spot covering whole of head, truncate behind...... nigriaceps. Black spot only around eves. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 4.
4. bach cere with a black ring. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .sinilis. Black spot including all the eyes............................. . . . . . . .

Maso politia nov. sp.-Length of 1.5 mm ; if 1.7 mm . Cephatothorax sellow-hrown, blackish around eres. Abdomen whitish or greenish: the stemum brown; legs pale. Head broad, very much so in the $\hat{\delta}$; in $f$ the p. m. e. are less than their diameter apart, and a litale farther from the p. s. e. ; a. m. e. but little sparated, and firther from the as. s. e.; in the $\delta$ the s. e. are very much more remosed from the m.e. than in the 9 . Less moderate, in the f there are fong spines under tibia i and i , eatel tibia bers above one spine near base and one near tip, and one or two very long fine hairs; stermun short, sides rombled, obtusels pointed at tip, hind coxie widely separated; the epigynum shows a transverse reddish area, in the middle a small eavity divided by a brodd septum, sometimes the red each side appears as a romble eavity ; the tibia of the of palpus has a stont profection on the outerside, and another above; the tube starts from the outerside, curves toward the tipand extends upward heyond the tansus ; there is a broad piece at hase.

Sereral specimens, Wathington, D. C.
The genus 1 huso is distinguished from Ceratinopsis by not having the stemum broadly truncate behind, in the spiny anterior tibis of s, and in the broad head of $\delta$.

Gualumadiotal ulatulatia nov. sp . - Length 2 mm . Cephalothorax and mandibles reddish sellow, eves strrounded by hlack; legs and sternum pale: abdomen white, with a more or less comected median row of hack suots above and a few on the sides and around the spinnerets. Legs moderately long, one spine above on each tibia. Head slightly clevated behind the eyes, more so in $\delta$ than $Q$; stemum broad, triangular. prodnced between hind eoxa. Abdomen but little broader than cephatothorax, twiceas long as wide; the epigynum shows each side a reddish elliptical area and between them a red area much broader than long and divided in the middle, behind it is a small semiciroular lobe; the thia of the $\delta$ palpus has a hook on the onterside much like G. orwata, but longer : the palpus macl like fr. ornatu; there is a large plate on onterside with band arross and a large houk at base, the outer end bent nearly at a right angle backwarl, the other end bent upward ; on immerside a piece like that in $G$. ornatit ; the tube is a little longer and the tip less curved than in that species.

Rumnymede, Fla.; Brazos County, Texas.
HBallyphantos Iforidianai nov. sp. - Length 1.6 mm . Cephalothorax and legs dall yellow-brown : sternm black; abdomen black; everywhere clothed with long fine hair. Head somewhat elevated ; eyes large posterior row nearly straight: p. m. e. about their diameter apart, eloser to the p. s. e.; mandibles fuite large and stont. Legs moderately slender; stemum convex, about as hrod as long, narmowed between the hind eoxa. Abdomen about twice as long as broad, subeylindrical; the episymmemensists of a hardened semicirenlar area, with a narmow finger across it: the male palpal organ is quite complicated; the tibia is short and broad, with twe mimute teeth on the tip above; the tarsus has two sharp-peinted teeth projecting back ward from its basal end above, the uper tooth the larger; the hook is slender, divided into three parts, the inmer larger part is brodly rommed, the two other parts acrose the base of the palpal organ are sharp-pointed and slightly bent; there is a slember upright piece slighty curved and on one edge with a fringe of hairs.

Punta Goorla, Fla. (Mrr. I. T. Nlosson).
 gellow-hrown, blackish around eyes, legs yellowish, palpi brownish, stomum and renter brown. Abdomen dark gray, above with three cross-lands and a harge apial spot white, on the sides the apical soot extends a short distance towam the base; cephalothoras brodest beyond middle, broatly tromeate behind ; abolomen broadest before middle tapering behiml ; posterior row of ryes straight; p. m. e. less than their diameter apart, abont as far from p. s. e. : a. m. e. small and close logether: stemam about as broad as long, broadly rommed hetween the hind ooxe Legs lomg and slemder, two spines above on tibise ; region of epigymum swollen, emarginate behind, a small central finger nearly across it, each sde shows a enrved tube.

Wrashingtom, I). ( . ; one specimen.

Easily separated fiom the other bander species of the gemms by its small size and peculiar pattern of makings.

IBolyphantes paceificus nov. sp.-Length o 2. mm. Ceplatothorax, legs and palpi wholly reddish; ablomen black, with small pale spots, and a large transerse white one a little above the pate spinnerets. Head prominent with some sattered gramules above; a large projection just behind the eyes, with sevemal short hatrs and a long. stifl, curved hristle at tip; posterior row of eyes barely recurved; f.m. e. fully their dimmer apart, and about as far from the p. s e.; in $\delta$ bardly their diameter apart, and closer to the p. s. e.; a. m. e. small and about their diameter apart; sternum very liond in front, bhant pointed behind. Legs long and slender: of abdomen more than twice as long as broal: the $Q$ lacks the gramules on the head, and the large wal abdomen has no white spot: the epigynum shows a pair of ronnded lobes behind, and in front and partially lying upon them is another pair eloser together, each outerside of the latter pair there is a smatl black hole; the of palpus is similar to 1 . drasooides Em.; the p:ojection to the tibia is mot so long and proportionally broader ; the hook of the tarsus extemds back to the base of the tibia, but is stouter than in B. drassoides, and there is no other tooth; the sube starts as in D. drassoides and extends upward along the lineated piece.

Olympia, Wash. (Trevor Kincaid).

## EPEIRIDE.

Plectania venusiat nov. sp.-Length $\boldsymbol{f} \mathrm{mm}$., epph. in front 1.8 mm Cephalothorax pale yellowish, brown each side; abdomen rellowish, a brown spot near base, a broad whitish band and behind a triangular brown spot, sometimes a whitish stripe from hasal spine and then a brown folium; venter brown, with two pale spots: stemum brown, with a pale central mark. legs pale. banded with brown ; ecphatothorax nearly twice as long as broad; stemom once and a half longer than broad. Abdomen plainly longer than broad, with the same number of projections as in $P$. stellata, but four of them very much enlarged, viz., the median one at hase one at each anterior former, bifid at tip, and the apical one over the spinnerets. on each side are three small humps the epigymm hats a finger similar to $I$. stellutu.

One female and two young, Punta Coprla, Fla. (Mrs. A. T. Slosson). Related to $P$. stellutu, but easily distinguished by its much narrower body and the enlarged spines on the abdomen above.

Ningat lloridabiat nov. sp.-Length $3 . \pi \mathrm{mm}$. ('ephalothorax greenish yellow. pars eephalica reddish, darkest on sides: mandibles with red lines. Legs greenish yellow; patellae, tibiæ and motatarius of anterior pairs with elongate red spots, less distinct on the hind pairs; sternum and coxie greenish follow. Abdomen greenish yellow, with two prominent submedian red stripes rearhing from hase to tip, broadest at hase and converging toward tip, where they surroand the spinnerets: three white stripes, one between the red and one each side; cephalothoras a little shorter than femur $i$; a. m. e. a little aloser to each other than to the slightly smaller a. s. e.;p. m. e. about once and a half their dianceter apart, more than twice their diameter from the somewhat smaller p. s. e. ; quad-
rangle of m. e. slightly narrower behind than in front. Legs moderately slender, elothed with bristles and seattered spines, mostly above and on the sides of joints, a distinct hump on posterior sides of all patelle; sternum barely longer than hroad. sides undulate, pointed behind. Abdomen once and a fourth longer than broad, hroadest in middle, not tapering behind: the epigynum has a short pale finger with recurved tip, each side a brown, nearls cirenlar cavity.

One sperimen, Punta (rorda, Fla. (Mrs, A. T. Slosson).
Ninga modestar nov. sp.-Length 3.5 mm . Cephatothorax pale yetlowbrown, a large white spot, anteriorly pointed, on posterior part of the pars cephalica. Legs pale yellowish, more brown on the middle of the joints; mandibles pale, with a brown spot; stermm yellow-brown, blackish on the sides. Abdomen black, a narrow white stripe on each side, meeting behind above the spinnerets, above with many irregular white spots and two mairs of impressed dots: venter with a narrow white stripe each side, sometimes broken up into spots; cephatothoras threc-fourths as broad as long, longer than femur $i$, abont as long as patella phe tibia $i ; a, m$. e. a little closer to each other than to the slightly smaller a. s.e.; p. m. e. larger than other eyes and abont once and a half their diameter apart, ahout twice their diameter from p. s. e.; legs mokerately short, with many bristles, probably a few spines, but all rubbed off, a little homp on posterior sides of all patelte: sternum triangnlar, about as broad as long, sides undulate, blunt pointed behind ; abdomen elliptical, oner and a half longer than browd ; epigrum consists of a quadrate area, in which is the outline of a triangular body with the apee forward, this is traversed by a narrow septum.

Two specimens, Punta Gorda and Lake Worth, Fla. (Mrs. A. T. Slosion).

## THOMISIDE.

Mysicus tloridatums nov. sp, -Length 3.2 mm . Cephatothorax yellowhrown, marginal seam dark, two elongate converging whitish spots on the prosterior part of the pars cephatica, a white band throngh the eye-region; femora i and ii pale yellow-hrown, darkest toward tips, the tibise clear red-brown, the metatansi paler and the tarsi yellowish, posterior legs wholly pate; sternmu pale. Ahkomen whitish above, with four large irregular hown spots. their outer margins comected, the posterior pair transersely mited, the sides light brown; venter pale hrownish with white dots ; c'phalothorax moderately low, as hroad as long, hardly shorter tham femur $i$; eses of posterior row about equal; a m. e. cynal to p. m. e., but eloser together; a. s. e. very mach larger than other eyes lees monderately short and stout, three spines in front and one alowe on femme $i$; tibise $i$ and ii with leme pairs below, three pairs under metatarsi i and ii ; stcrmm phanly longer than broal, sides romded. Abdomen troneate at base, slightly narrower and harely longer than the cephathorax; the mate palpus has an clevated ridge on the base ol thia, which is prolonged on the inner side ; a pointed projection at tip of tibia; tarsas broad, distinctly pointed at tip; palpal organ broad, simple, from the lower inner end a tube arises and runs upward and aromb the bulb, near the lower midde is a short corved biack hook, and on inner side a dark stribe runs upward and around the end.

One male, P’unta (iorda, Fila. (Mrs. A. 'T. Slosson ).
 miform brown: legs at paler hown. exeept the tarsi, which are whitish: abose with sume scattered silvery dots, below none; a short white band in eye-vegion; stermun light brown. Aldomen brown. with silvers dots on sides and larger transverse spots above; venter gray-hrown ; very similar in structure to (. remsicolor. hut the palpal organ is broader, the bulb mearly circular in outline, more distinctly divided into two pretions, the tube similar, hat hardly as hong, the projections on the tilia are the same; fone pairs of spines under tibian and metatarsi iand io an immature female resembles the male, but is of a paler brown color.
Pmota Gorda, Flal. (Mrs. A. T. Slowon).
Misumenat viridiats nov. sp.-Length of 4 mm ., क 3 mm . Cephatothorax and legs green, tarsi more yellow, both with hong, prominent, black hristles; sternum paler. Abdomen whitish, more gray above, with some silvery spots and red dots at the base of some of the black bristles: cephatothorax broad, considerably narrowed in front ; the a. m. e. hardly nearer to a. s. e. than to cacla other; m. e. equal. forming a square ; four pairs of spines under thise i and i ; there pairs under those metatarsi; femur i honger than the cephalothorax : sternum but little longer than broad, sides rounded. Abdomen broad, pointed behind. consex above; on each sidn of the epigynum are cwo curved dark spots; there is a broad septum to the carity as in the other species; the $\delta$ is similar to the 9, but with longer legs, and on them rel bands as follows: at tip of patella, at hase and tip of tibia, and apical half of metatarsi and tarsi ; posterior legs with red spots at tipe of patellee and tibiae; abolomen with four red spots aboye on basal half and fon: red bands on apieal half, a red ring aroumd base of spinnerets; there is a short hant progection on the outer tip of the tibia of the o palpus: the palpal organ nearly circular in outline, the tube arising mear the onter tip and exteuding aromd on inmer side to near hase.

Three specinens, I'mita (rorda, Fla. (A. T. Alosion).
Mixubnenat bellalainov. sp. - Length 94 mm. Cephatothorax pale rellowish, with a broad irregular red-brown hand cacle side, and sometimes a brown line on extreme margin, eye-region and elypens reddish. a median line from betwern p. m. e. extending back to near dursal groose; a silvery white spot eath side of its tip: mandibles with a spot at hase, and a tanswerse line reddish; anterior legs sometimes almost wholly red-hrown, with pale at bases of femora, but more oftem pale in the niddle of the joints, with spots at the lases of the bristles; sternum and pusterior legs whitish. Abdomen with a brotd fuseons stripe each side from base to spinnerets, above motled white and gray, with a basal spearmark and behind four converging pairs of fuseons spots, lases of the bristles reddish; renter palde, with a broad median dark area; cephalothoran about as broad as long ; eses of anterior row about equal distances apart; m. e. equal, forming a stuare; femur i much longer than cephatothorax, four pairs of spines under tibia i and i , tive pais on thase metatars; stermum phanly longer than broad, sides ronnded; abobmen brodest behind the middle, pointed behind, convex above; the eprigymum consists of a brom septum passing under an anterior ridge, which is concex behind, side is an oblong cavity, and behind are two small holes.
Four specimens, Punta (ionda, Fla. (Mrs. A. T. Slosion).

## LYCOSID.E.

Lyerosi floridanat nov, sp.-Length 14 mm . long, 4 mm . broad; tibia, plus patella i, 6 mm ; tibia plus patella is. 7 mm . Cephahothorax dark brown, two pale lines on pars ceplatica and a white interrupted line on each side above the margin; mandibles black; sternum pale yellowish, with a median black stripe; femora yellowish brown, rest of legs darker, sometimes indistinctly banded on posterior tibise. Abdomen black above. with small. scattered white dots; venter pale, with a darker eentral stripe; first row of eres procurved, eyes of second row hardly their diameter apart, and about the same distance from the slightly smaller eyes of the third row ; three pairs of spines under tibia $i$, two pairs under metatarsus i : sternum oval ; abdomen (tuite slender, eylindrical; the epigymum consists of a rounded cavits, a little longer than broad, in which there is an inverted T-shaped septum, much the broadest in front, somewhat like $L$. pratensis.

## One specimen, Punta Gorda, Fla. (Mrs. A. T. Slosson).

'Trochosat foridatnat nov. sp.-Length 6.5 mm ., ceph. 3 mm . long. 2.1 mm. broal: tibia plus patella i, 2.4 mm . : tibia, phus patella iv, 3 mm . ; the cephalothorax is pale rellowish. with black spots around the eyes, a brown irregular stripe each side, leaving the pale central area about as broad behind as in front; mandibles red-brown; sternum and legs pale yellowish, indistinct darker bands on patellx, bases and tijs of tibie, metatarsi and tarsi yellowish brown. Abdomen whitish, with an indistinct yellowish basal spear-mask and a broad irregular black stripe on each upper side, behind the basal third this is broken up into spots: region of epigenum paie red-brown; cephatothorax and head low, sides convexly sloping; first row of eyes as long as the second, straight, all close together; eyes of second row much less than their diameter apart ; forsal eyes much closer together than usual, not farther from each other than from the slightly larger second eyes; mandibles long and stout; stermum but little longer than broad, rounded. Leegs short, three pairs of spines under tibire and metatarsi; abdomen once and two-thirds as long as broad; the epigynum shows only as a concave transverse ridge.

Two :pecimens, l'unta Gerda, Fla. (Mrs. A. T. Slosson).

## OLYOPIDE.

(1).yopers conmpatith nov. sp.-Length 6 mm., ceph. 2.7 mm, long, 2 mm . broad. The cephalothomax is dark brown, a vertical white spot on the rater of elypens; mandibles dark brown, with a pale line; steroum dark brown, pale in center ; coxa pale. Legs pale, the femora, except base, infuscated ; patella brown, brown bands on base, middle and tip of tibise and metatarsi. Abdomen dark brown, paler on lower sides; a broad dark brown stripe on venter; everywhere clothed with white scales, those on posterior middle of abomen somewhat rufous and on each side of abdomen above above they form two or thee obligue white lines, and on cephalothorax an indistinct central stripe; cephatothorax highest in eye-region, slightly concave behind; p. m. e. about two and a half times their diameter apart; legs moderately long, with long spines; sterman somewhat oval ; abdomen one and a half times longer than broad, broadest near base, tapering and blunt pointed behind: the epigynum consists of a cavity twice as wide as
long, partially covered by a lobe one and one-fourth tines as wide as long; someWhat like $O$. sealaris, but the lobe not as loroad and showing more of the cavity each sicle.

Ft. Collins, Colo. (Mrs. Baker).
ATTIDE.
Phileurs monticolat nov. sp.-Length 6.5 mm., ceph. 3 mm. long, 2.2 mm. broad. Cephatothorax back, a broad white stripe each side, but not reaching the hind margin, white on elypens. a tuft of still black hairs just behind eyes of second row, a smaller tuft behind lateral eyes of first row; mandibles slightly iridescent greenish. Legs red-hrown, tarsi paler, cluthed with white hair, very long under femur and tibia i: stermum dark red-brown. Abdomen black, a narrow white band around hase, a broad tawny stripe on each upper side; venter with a white stripe each side; a white stripe on inner side of patella and tibiat $i$. a yellowish stripe above on tibia $i$ : of the usual structure of the genus; there is a short trumeate projection at outer tip of tibia; palpal organ divided into two parts, the lower and larger has a convex projection on the inner side; on the outer side there is near the tip a mark like that of $I$. militaris; the n pher part is broader than long, irregularly striate, with a black tube at tip, which is sinuate, and has a simple tip.
One male, Ft. Collins, Colo., sweeping, May (Baker).
Icius flemralis nov. sp.-Length 1 mm. ; ceph. 1.6 mm . long, 1.25 mm . broad. Cephalothorax red-brown, clothed with golden seales; legs red-brown, exept the pale tarsi ; tarsi, patellae and tibise ii. ii and iv, lined with pale yellowish; sternum and mouth-parts red-brown: anterior coxe reddish, others pale. Abdomen whitish, a broad red-hown stripe om each side, donsum with seattered golden scales and short black hairs; the cephalothorax is low and flat, eye-region one-third broader than long, slightly broader behind than in front, eges of second row nearer to lateral than dorsal ezes ; fist row straight, all nearly touching, the diameter of lateral eyes is searcely as great as radius of middle eyes: mandibles short and stont : anterior coxa separated by nearly width of lip: sternmmboadest in middle, one-hhird longer than broad, blant pointed. Legs quite short and stout, first pair stoutest, but little longer than fourth pair, three pairs of spines under tibia $i$, two pairs under metatarsus $i$; metatarsus iv spined enly at tip. Ahdomen nearly once and two-thirds as long as broad, broatest a little before the middle, moderatels depressed; the epiggnum has a central pieee nearly twice as long as broad, outlined in front by a narow oblique eavity each side, and behind deeply excised in the middle.

One female, Punta Gorda, Fla. (Mrs. A. 'I. Slosson).

## ACARINA.

Tronibidinm marinus nov. sp.-Length $\approx \sim$ mm. Bright red: body priform, but not so large in front as in some species, a few depressions above; eye-stalks short; mandibles slender. Legs short, anterior pair shorter than body, posterior pair not reaching to tip of abdomen; last joint of leg i slightly enlarged, barely longer than the preceding joint. Body with short feathered hairs, not so short, however, as in T. sericenm ; second joint of palpus quite long ; third short, barely longer than broad ; claw quite long ; thumb longer than claw, elawate, and with many fine hars, longer than in $T$. sericenm.

Under stones among salt-grass, between tide-marks at Sea Cliff, N. Y. It is easily separated from T. sericum by the shorter third joint of palpus, and from T. pucificum by the less pyriform body and the finer hairs. It feeds on the maritime coccid Ripersia.

Ottonial granillos:a nov. sp.-Length 2 mm ., leg iv 1.8 mm. Red. pale bencati botween coxe, a pale spot each side above coxa of third leg. venter pale in middle. Legs and palpi pale, legs $i$ and iv reddish in middle $:$ stont, convex, hroalest at shomlders, considerahly narrowing to the eyes: cephalothorax short and sloping into the dorsum of abdomen withont any definite break; dorsal groove short, enlarged at end ; cyen sessile. but projecting ; above thickly clothed with two sizes of romded granules. the smaller the most numerons, a few on venter. Legs and palpi clothed with short clavate stales; last joint of leg i a trifle longer than the preceding joint, that of leg iv ahont as long as penultimate: ventral openings clothed with short fine hair: palpi short, stont, third joint about as long as brow, two claws at tip of fourth joint, the inner one the smaller; there are three equal spines along the onter side, the thumb is longer than claws, cylindrical and blunt-tipped, elothed with fine hair.

Four specimens, Punta Gorda, Fla. (Mrs. A. T. Slosson).
Ortonitia frombidiodes nov. sp.-Length ? mm., leg iv 1.6 mm . Red above, pale beneath, the pale extending up on sides near the midde. legs and palpi pale; stout, the sides nearls parallel or slightly tapering, more sleuder than O. !!rambosa ; cephatothorax small, separated from dorsum of ahdomen by a distinet brak: a transeree impression near the midde of body and several smaller ones in front; at the tip alove is an impressed triangular plate, similar to (). locustarum. Legs short, but not wery stout, last joint of leg i plainly longer than penultmate, last joint of is as long as pemultimate. Boty clothed with appressed narrow scales, fincer on venter; legs and palpi with still narrower scales, almost hairs: palpi stont, thimd joint as broad as long; two claws at the tip of fomrth juint, the inner the smaller, on onter edge three stont, equal spines; thumb eylindrical, blunt-tipped, with fine hairs.

Two specimens, P'mata (forla, Fla. (Mrs. A. T. Slosson)
 Above black, with a pale (red in life) median spot in front; a large oblique spot each side, uniting just behind the dorsal growe, then comtinumg as a median stripe toward the apex, which it does not reach; a larger median sint at apex; leg i blackish, excep apical jomints: legs ii and iii pale, indistanctly ringed with hack at the tips of the joints: leg iv backish in midde; venter pale. Body siender, thee times as long at hroat, slighty constricted at third legs: dorsal growe rearhing to wemr midde, cularged at each cod : last joint of leg i a litule shorter than the preceding joint, last joint of leg iv alout two-thirds as long as the preveding joint.

Simaris allstralis nov, sp. Lergath 1.1 man. Pale yellowish; body oblong. with a rounded snout in front, which bears alove six eyes in the nstal arrangement. Borly eovered with a network of fine hairs, at the intersections arise very short curved still bristles; above two rows of five small depressions. Legs
very short, not as long as the brealth of body, chothed with fine short bristles: last joints of legs $i$ and iv abont as lomg as the pemitimate and slightly enlarged at tips; mouth-parts retracted; genital opening once its length in front of the smaller anal opening.

One specimen, Punta (iomla, Fla. (Mrs. A. 'T. Slosson).
Bdella tellellat nov. sp.-Length .6 mm. Pale reddish, irregulaty motthed with baekish: four or five elongate pate stripes on the ceplahothorax ; abdomen marked with backish, darkest on the sides, paler below; legs whitish hyaline: mandibles and palpi reddish. Mandibles very long and slemder over once and one-half as long as the eephalothorax, with two bristles above on each side; seeond joint of palpus about three-fonths as long as the mandibles: third and fourth very short ; fifth about twice as long as hoad. not one-third as long as the sceond joint, three bristles near the truncate tip, one very short, an onter one as long as the mandibles, and an inner me-half as long; the eephatothorax is broader than long, truncate in front, ronnded behind, narrower than the abdomen, a short bristle at cach corner. Abdomen abont twice as long as boad, concave at base, the shoulders projecting, contracted in the middle and broadly rounded at tip, a short stiff bristle on cach shoulder, and ahout six similar ones around the apex. Legs short and very stout. with some stifl bristles.

Under bark of oak trees, Sea Clift, N. Y., May, Readily separated from 13. cordimalis by its mottled appearance and slender form.

Eupodes marimns nov. sp.-Length . 35 mm . When alive, bright red in color, in acohol it beomes greenish, with a pale median stripe on the abdomen, legs hyaline; the cephalothorax is narower than the abdomen, somewhat triangular, truncate in front, no distinct eyes; mandibles quite prominent, half as long as the cephalothorax : papipithick and stomt, pemaltimate joint not twice as long as broad, last joint not half as long as the pemaltimate, pointed, and with several short stiff spines at tip. Abdomen somewhat swollen at shonders, abont ouce and one-half as long as broad, tapering behind and broadly romuded at tip, above with a few scattered bant hairs, a longer one on each shoulder and about a duzen at tip. Legs short. with fine hairs; leg i the longest, but plainly shorter than the body. femur i not quite as long as the cephatothorax, is broadest at base abont equal to the femur phe patella io femur iv thickened as usual in the genus.

Rumning over rocks between tide-marks at Sea Cliff; N. I. It has shorter legs and stouter palpi than $E$. mbiabilis. I have seen a few secimens which are a little larger, and are covered with small black spots, but I am not sure that they form a different species.

Coibatellat perfectat nov. sp-Length . 45 mm . Reddish brown, a prate spot at base of abdomen above, legs yellowish; tectal plate short, broally eleft in front. tip of each projection slightly truneateand giving rise to a long stifl bristle, superjor bristles loug, sub-erect ; each side under the tectal plate there is a short elevation hearing a stont curved bristle in front; sete rery short, thick and clavate, bot half the length of the superior bristles. Abromen depressed, conrex, fmely gramlate, with about twenty-five bristles above, al! shorter than the bristles of the ceplatothomax ; no small spots visible. Wings long. triangalar. rombed helow, venter with a few sattered short hairs; genital opening once
and a half its jength in front of the larger anal opening: coxal plate with three short lines each side. Legs moderate, hairy, a curved plate behind the first femora.

Many specimens swept from low herbage in May at Pine Island near Bayville, N. Y. Also one from Norfolk, Va., collected by Capt. Thos. L. Casey. Related to O. bidentaid and O. obesa, but separated by the thick sete, shape of wings, and mepotted abdomen.

Oribatella minntat nov. sp.-Length .3 mm . Pale reddish brown, legs paler, a pale spot at hase of abdomen ; setie, bristles and hairs white. Budy quite high, globose; tectal plate short and broad, divided into forr spine-like processes in front, the median pair cuite close together and smaller (but wot shorter) than the outer ones: between the immer and outer spine on each side arises a rery stont anterior bristle, abont as thick as the median processes of the tectal plate and plainly longer; superior bristles as large as anterior pair, projecting forward ; on each side of the tip of cephalothorax is a stont curved bristle, which, on its outer side, bears a row short hairs; setæ not very short, chavate. Abdomen finely punctulate. Wings large, deeps somewhat pointed and incurved at tip: above on the abdomen there are about twenty fine curved hairs, about as long as the seter : venter gramulate, genital opening more than its length in front of the slighty larger anal opening; coxal plate transversely divided. Legs short, finely hained. those on ontside of the patelle and tibise are much thicker than the others.

One specimen, muder hemlock bark, Sea Cliff, N. Y., Mareh.
Bellan floridana now, sp.-Length 6 mm . Yellowish brown, a median dark mark on the base of the abdomen : cephalothorax triangular ; two pairs of anterior bristles; superior bristles erect, fully twice as long as the short clavate setie. Abdomen elliptical, convex, smooth, with about cighteen bristles above; venter smooth, genital opening abont once and onc-half itw length in front of the larger anal opening; eoxe as in $B$. minuta.

P'untal (iomda, Fla. (Mrs. A. T. Slosson). Closely related to B. mimuta, but larger, and the short setie not half so long as the bristles of abdomen.

Eremarus maromimalis nov. sp.-Length .t mm. Dark brown ; rephalothorax triangular, romuded in front, with two short surved hairs at tip, with munerons ridges alove and the ontline of a trapeainm in the center, a plate-rike projection behind coxat i, a spine-like projection behind cosae it ; seta very short, strongly capitate. Abdomen depressed, alout once and a half as long as broad, elliptical, with a broad membranous margin, which is strongly striated ; above with many irregular intersecting ridges; helow grambate, the genital opening about two-thirds its length in front of the larger anal opening; coxal plate transversely dividel. Legs very short, femora thickened, with only a few short hairs; on the penultimate joint of the anterior pair there is a projection bearing a longer hatir at tip; from the side a few wery short stiff hairs can he seen on the dorsum.

Nomerons specimens fommel chstered moder lichens on the hark of apple trees in March, at Fea Clift, N. S'. Some yomg specimens are pale, with a transereely striateri abdomen, and a row of several smatulate hairs at the tip.

Carabodes brevis nov, sp,-Length . 4 mm . Dark red-brown, legs yellowish; the cephatothorax has an elevated plate-like ridge each side, and in the middle a long triangular elevated region, the sides of which are concave; four short, stifl, curved bristles in fromt. and two mueh longer ones near the base, each strongly enrved toward the middle line; setee short, capitate. Abdomen a little longer than broad, truncate at hase and broadly rounded at tip; strongly pitted, or rather with a fine network of ridges, bearing about tweuty-two stifl curved bristles about as long as the sete, two submedian rows of four each, a lateral row of three. four on earh posterior side, those near the base almost clavate, lat tiose on sides simple; venter pitted like the dorsum; the genital opening fully its length in front of the larger anal opening; some short eurved hairs on venter; ontlines of the coxa distinct and not forming a plate, roughened. Legs short, joints slightly fusiform, with simple hairs, some near the tips quite long.

Four specimens shaken from a dead fungus (Polyporus) in May, at Sea Cliff, N. Y. Related to C. gremulutus, but differs in having simple hairs on the sides of the abdomen.

Carabodes dorsalis nov. sp.-Length . 45 mm .-l'ale brownish yellow; cephalothorax triangular, convex, with the ontlines of a broad T-mark; two short anterior bristles, a pair of longer, appressel, superior bristles; setie erect, moderate, elavate. Abdomen once and one-half longer than broad, sides nearly parallel, broadly romded behind, not high, eoarsely but evenly granulate above and below; on dorsm each side a lateral and a submedian row of four large stifl, eurved, appressed, simple hristles, longer than the setie; genital opening nearly once its length in front of the larger anal opening; coxa separate. Legs short aul very stout, some joints as broal as long, with very short spine-like bristles.

Three specimens taken from the surface of a lange boulder, in the woods, near Sea (liffi, N. Y. General appearance of C. cpicalis, hut iliffers in more slender form, stonter leys, ete.

Nothrus (:) marimus nov. sp.-Length .9 mm . Black, sides of abdomen and tips of legs yellowish ; cephalothorax triangular, the tip striated, a narrow oblong bridge appears to comect the base to the abdomen, its anterior tip is terminated by a ridge, each side of this on the cephalothorax there extends obliguely backward a curved ridge; apparently no setæ. Abdomen elliptical. high. smouth, but not shining, with some scattered, very short, sometimes almost elavate hairs; venter smooth, the genital opening distinctly separated from the larger anal opening; coxa marked by incomplete lines. Legs much shorter than the body, with stifl, pointed bristles, a few finer oues near tips of tirsi, three claws, the middle one distinctly the largest, none of the joints of the legs swollen, except femora i , which are somewhat stonter than the others.

Not uncommon on roeks hetween tide-marks, Sea Cliff, N. Y. This is not a Nothrus, hat nearer to it than th any other genns known to me. It will not agree with Damous. Most of the specimens are young and have the abdomen tramsersely striate.

